

In 2025, Solar & Clean Power met all demand growth while fossil electricity stayed flat.

Fossil exports in mid-2026 are paralyzed on 4 seas & in Russia, while China rolls out EVs & renewables at massive scales. Climate Victory is Possible. But Climate Change presents a less talked about problem: the threat to Ocean Oxygen.

Seawater only contains 6-10 mg/kg of molecular oxygen, O_2 , compared to 210,000 mg/kg in the air.

This is not just about dead zones caused by fertilizer runoff. Oxygen only gets into the ocean by surface mixing and the photosynthesis that happens in the top 200 meters (mostly shallower than that). The deep oceans must be replenished by the Global Thermohaline Circulation, the AMOC portion of which is weakening. No one knows when it might collapse.

Also, warmer waters can hold less dissolved gases, of which O_2 is one. About 91% of excess global heating from greenhouse gas emissions goes into the oceans.

99.8% of the oceans are 5.6 km or less deep. If the Earth were the size of a basketball, that would be about 1/5th the thickness of a sheet of copy paper. About 9% of it is continental shelf, 200 m or less deep. 80% of the atmosphere's mass is in the troposphere, the lower 6km (at the poles) to 18 km (in the tropics). The International Space Station (ISS) would be less than 8mm elevation.

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